MITSUBISHI

A-A1S Module Conversion Adapter

User's Manual

A1ADP-XY
A1ADP-SP

Thank you for buying the Mitsubishi general-purpose programmable controller MELSEC-A Series

Prior to use, please read both this manual and detailed manual thoroughly and familiarize yourself with the product.

MODEL	A1ADP-U-JE
MODEL CODE	13JQ00
IB(NA)-0800352-G(0909)MEE	

● SAFETY PRECAUTIONS ●

(Always read before starting use)

When using this equipment, thoroughly read this manual. Also pay careful attention to safety and handle the module properly.
These precautions apply only to this equipment.
Refer to the user's manual of the CPU module to use for a description of the programmable controller system safety precautions.
These "SAFTY PRECAUTIONS" classify the safety precautions into two categories: "DANGER" and "CAUTION".

⚠DANGER	Procedures which may lead to a dangerous condition and cause death or serious injury, if not carried out properly.
⚠CAUTION	Procedures which may lead to a dangerous condition and cause superficial to medium injury, or physical damage only, if not carried out properly.

Depending on circumstances, procedures indicated by **⚠CAUTION** may also be linked to serious results.
In any case, it is important to follow the directions for usage.
Store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

[DESIGN PRECAUTIONS]

⚠DANGER

- When using the A series module to which the A-A1S module conversion adapter has been installed on the right side, attach a dustproof cover to the module.
  If no dustproof cover is attached, foreign matter will enter the module, resulting in a failure. Furthermore, internal parts of the module may be flied in the short circuit test or when an overcurrent or overvoltage is accidentally applied to the external I/O section.
- Before installing the AnS series module to the A1ADP, attach the dustproof cover to the module.
  If no dustproof cover is attached, foreign matter will enter the module, resulting in a failure. Furthermore, internal parts of the module may be flied in the short circuit test or when an overcurrent or overvoltage is accidentally applied to the external I/O section.

[INSTALLATION PRECAUTIONS]

⚠CAUTION

- Use the programmable controller in the environment given in the general specifications section of the User's manual for CPU module being used. Using the programmable controller outside the range of the general specifications may result in electric shock, fire or erroneous operation or may damage or degrade the product.
- Fully insert adapter fixing projections on the lower part of an adapter into fixing holes on the base unit, then tighten the adapter mounting screw within the specified torque.
  If the adapter is not correctly installed or no screw is tightened, it causes malfunctions, a failure, or drop.
  Tightening the screw excessively may damage the screw and/or adapter, resulting in a drop of the adapter and installed module, short circuit, or malfunctions.
- Be sure to shut off all phases of the external supply power used by the system before installing or removing the adapter.
  Failure to do so may damage the products.
- Do not directly touch the conductive part or electronic components of an adapter.
  Doing so may cause malfunctions or a failure of the adapter.

[WIRING PRECAUTIONS]

⚠ DANGER

- Be sure to shut off all phases of the external supply power used by the system before wiring.
  Failure to do so may result in an electric shock or damage of the product.
- Before energizing and operating the system after wiring, be sure to attach the terminal cover supplied with the product.
  Failure to do so may cause an electric shock.

⚠CAUTION

- Wire the module correctly after confirming the rated voltage and terminal layout.
  Connecting a power supply of a different voltage rating or incorrect wiring may cause a fire or failure.
- Do not connect multiple power supply modules to one module in parallel.
  The power supply modules may be heated, resulting in a fire or failure.
- Press, crimp or properly solder the connector for external connection with the specified tool.
  Incomplete connection may cause a short circuit, fire or malfunctions.

[WIRING PRECAUTIONS]

⚠CAUTION

- Tighten terminal screws within the specified torque range. If the screw is too loose, it may cause a short circuit, fire or malfunctions.
  If too tight, it may damage the screw and/or the module, resulting in a short circuit or malfunctions.
- Carefully prevent foreign matter such as dust or wire chips from entering the module.
  Failure to do so may cause a fire, failure or malfunctions.

[STARTING AND MAINTENANCE PRECAUTIONS]

⚠ DANGER

- Be sure to shut off all phases of the external supply power used by the system before cleaning or retightening the terminal screws, module mounting screw, or adapter mounting screw.
  Failure to do so may result in an electric shock.
  If they are too loose, it may cause a short circuit or malfunctions.
  If too tight, it may cause damage to the screws and/or module, resulting in a drop of the adapter and installed module, short circuit, or malfunctions.

⚠CAUTION

- Do not disassemble or modify each of adapters.
  Doing so may cause a failure, malfunctions, personal injuries, and/or a fire.
- When using a wireless communication device such as a mobile phone, keep a distance of 25cm (9.84inch) or more from the programmable controller in all directions.
  Failure to do so may cause malfunctions.
- Be sure to shut off all phases of the external supply power used by the system before installing or removing the adapter.
  Failure to do so may result in a failure or malfunctions of the adapter and installed module.
- Before handling adapters, touch a grounded metal object to discharge the static electricity from the human body.
  Failure to do so may cause a failure or malfunctions of the installed module.

[DISPOSAL PRECAUTIONS]

⚠CAUTION

- When disposing of this product, treat it as industrial waste.

Revisions

* The manual number is noted at the lower right of the top cover.

Print Date	*Manual Number	Revision
Jun., 2006	IB(NA)-0800352-A	First printing
May, 2007	IB(NA)-0800352-B	Correction Section 2.3, Chapter 7, Section 8.2
Oct., 2007	IB(NA)-0800352-C	Correction Chapter 7, Section 8.2
Jul., 2008	IB(NA)-0800352-D	Correction Chapter 7
Nov., 2008	IB(NA)-0800352-E	Correction Section 2.1, 2.2, 8.2
Feb., 2009	IB(NA)-0800352-F	Correction Section 1.1, 1.3, 2.1.3, 2.3, Chapter 7, Section 8.1, 8.2 Addition Section 2.1.4
Sep., 2009	IB(NA)-0800352-G	Correction Chapter 7

CONTENTS

GENERIC TERMS AND ABBREVIATIONS

Unless otherwise specified, this manual uses the following generic terms and abbreviations to explain the A-A1S module conversion adapter.

Generic term/abbreviation	Description
A1ADP-XY	Abbreviation for the A-A1S module conversion adapter of the A1ADP-XY type.
A1ADP-SP	Abbreviation for the A-A1S module conversion adapter of the A1ADP-SP type.
A1ADP	Generic term for the A1ADP-XY and A1ADP-SP.
A1ADP + AnS series module	Abbreviation when the AnS series I/O module or special function module is installed to the A1ADP.

Conformation to the EMC Directive and Low Voltage Instruction

(1) For programmable controller system

When complying with EMC Directives and Low-Voltage Directives by assembling a Mitsubishi programmable controller compatible with EMC Directive and Low-Voltage Directives into the user product, refer to "EMC Directives and Low-Voltage Directives" in the User's Manual for the CPU module being used. The CE mark, indicating compliance with the EMC and Low Voltage Directives, is printed on the rating plate of the programmable controller.

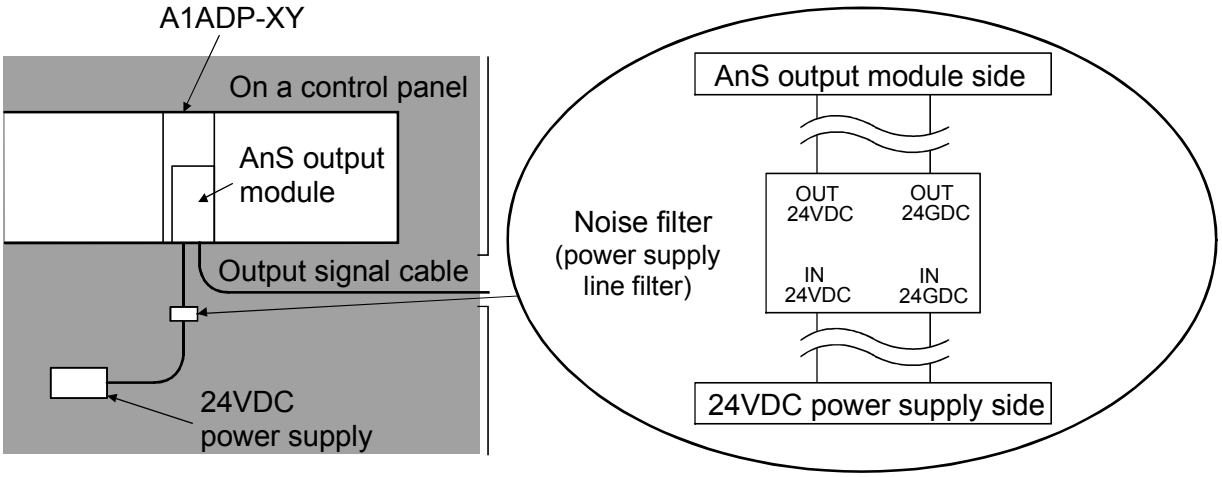
(2) For the product

For the compliance of this product with the EMC and Low Voltage Directives, installing a noise filter (power supply line filter) as the following is required.

(a) When using the A1ADP-XY with an AnS series output module, attach any of the following noise filters (power supply line filters) to reduce conductive noise of 24VDC external supply power cable.

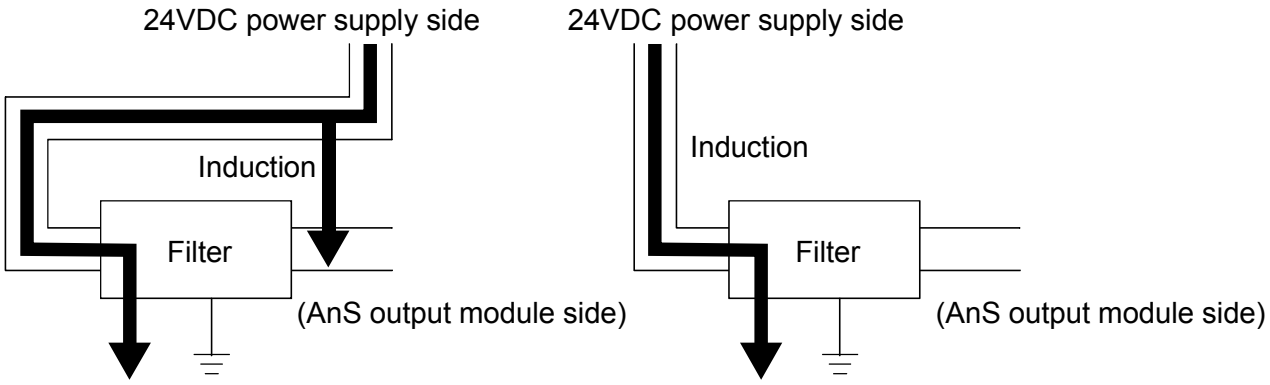
Noise filter model name	ZHC2203-11	ZHC2206-11	ZHC2210-11	MBS4830
Manufacturer	TDK			DENSEI-LAMBDA
Rated current	3A	6A	10A	30A
Rated voltage	250V			48V

(b) Referring to the following, attach a noise filter (power supply line filter) to the 24VDC external supply power cable connected to the AnS series output module.



(c) The following describes the precautions for attaching a noise filter.

1) Do not bundle the wires on the input side and output side of the noise filter.
When bundled, the input side noise will be induced into the output side wires from which the noise was filtered.



1) The noise will be included when the input and output wires are bundled.

2) Separate and lay the input and output wires.

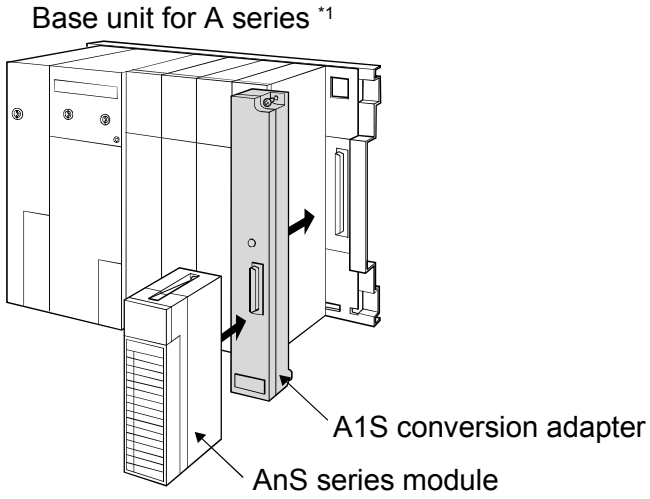
2) Earth the noise filter earthing terminal to the control cabinet with the shortest wire possible (approx. 10cm (3.94 in.)).

1. OVERVIEW

1.1 Overview

This manual describes specifications, system equipment, part names, loading, and installation of the A-A1S module conversion adapters of the A1ADP-XY type and A1ADP-SP type.

The A1ADP is an adapter module used to install the AnS series I/O modules and special function modules to the base unit for A/QnA (large type) series.



*1: For details of the system configuration that enables the installing the A1ADP to A series base units, refer to Chapter 2.

A1ADP-XY……For the AnS series I/O modules
A1ADP-SP……For the AnS series special function modules

POINT

When modules are installed in either of the following combinations, the operation is not guaranteed.

- Combination of the A1ADP-XY with the AnS series special function modules
- Combination of the A1ADP-SP with the AnS series I/O modules

However, for the following models, the combination of the module type configured in the I/O assignment setting and the A1ADP model that can be combined differs. Pay attention when selecting the A1ADP.

Model	Type	Usable A1ADP model
A1SI61	Special module	A1ADP-XY
A1SJ51T64	Output module	A1ADP-SP
A1SS91	Output module	A1ADP-SP

1.2 Supplied Parts

The parts enclosed with the A1ADP are listed below.

Product	Type	Quantity	Remarks
A-A1S module conversion adapter	A1ADP-XY or A1ADP-SP	1	—
The dustproof cover for the A1ADP-XY/SP	—	1	"A1ADP" is shown on the backside of the dustproof cover.
This manual	—	1	—

For references of the dustproof cover, see the back cover of this manual.

1.3 Related Parts (Sold Separately)

When the A (large type) module has been installed on the right of a slot to which the A1ADP has been loaded, attach the following dustproof cover to the A (large type) series module side.

The following dustproof cover is not an accessory. Please purchase it separately.

Product name	Manufacturer	Quantity	Remarks
A55B, 58B I/O dustproof cover	Mitsubishi Electric System Service Co., Ltd.	1	Same dustproof cover included in the A52B, A55B, and A58B.

For references of the dustproof cover, see the back cover of this manual.

2. SYSTEM CONFIGURATION

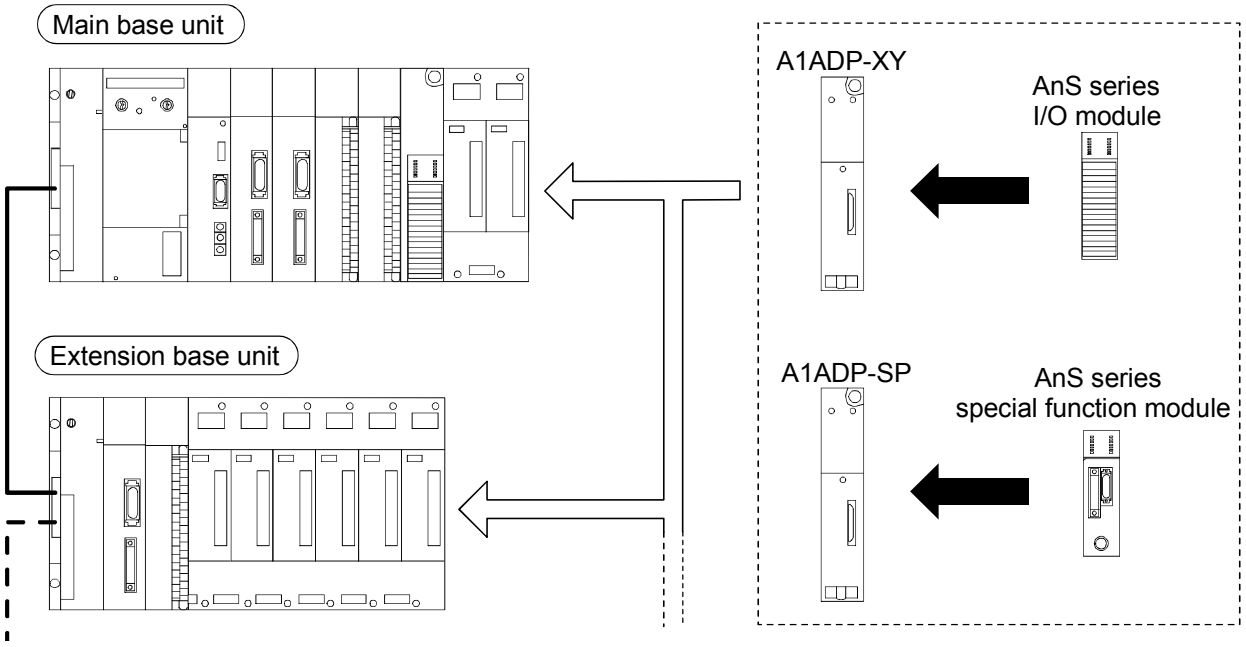
The A1ADP can be installed to the following base units.

- A/QnA (large type) series main base units or extension base units
- A series extension base units installed to Q series base units

This section describes the system configuration, available base units, available CPU modules, and precautions for the A1ADP.

2.1 For installing the A1ADP to an A/QnA (large type) series main base unit or extension base unit

2.1.1 System Configuration



2.1.2 Available Base Units List

The following table shows the base units to which the A1ADP can be installed.
Up to three A1ADPs can be installed to one base unit.

Main base unit		Extension base unit	
Type	Number of installable adapters	Type	Number of installable adapters
A38B	3	A68B	3
A38B-E	3	A68B-UL	3
A38B-UL	3	A65B	3
A38HB	3	A65B-UL	3
A38HBEU	3	A62B	2
A35B	3	A58B	3
A35B-E	3	A58B-UL	3
A35B-UL	3	A55B	3
A32B	2	A55B-UL	3
A32B-E	2	A52B	2
A32B-UL	2	A68RB	3
A32B-S1	2		
A37RHB	3		
A33RB	2		
A32RB	1		

2.1.3 Available CPU modules list

The following table shows the CPU modules available for the A1ADP use.

Available CPU module[*1]			
A1NCPU	A1NCPUP21	A1NCPUR21	A2NCPU
A2NCPUP21	A2NCPUR21	A2NCPU-S1	A2NCPUP21-S1
A2NCPUR21-S1	A3NCPU	A3NCPUP21	A3NCPUR21
A2ACPU	A2ACPUP21	A2ACPUR21	A2ACPU-S1
A2ACPUP21-S1	A2ACPUR21-S1	A3ACPU	A3ACPUP21
A3ACPUR21	A2UCPU	A2UCPU-S1	A3UCPU
A4UCPU	A1NCPUP21-S3	A2NCPUP21-S3	A2NCPUP21-S4
A3NCPUP21-S3	A2ACPUP21-S3	A2ACPUP21-S4	A3ACPUP21-S3
Q2ACPU	Q2ACPU-S1	Q3ACPU	Q4ACPU
Q4ARCPU			

*1: The relevant modules are the CPU modules that had been discontinued at the end of September, 2006 (at the end of September, 2008 for the models that were kept produced for more 2 years as a spare part).
The CPU modules that were discontinued before the end of September, 2006 and not mentioned in the above table (such as the AnCPU and A3HCPU) are unavailable.

2.1.4 List of available remote I/O stations

The following table shows the link modules for MELSECNET and MELSECNET/10 remote I/O station for which the A1ADP can be used.

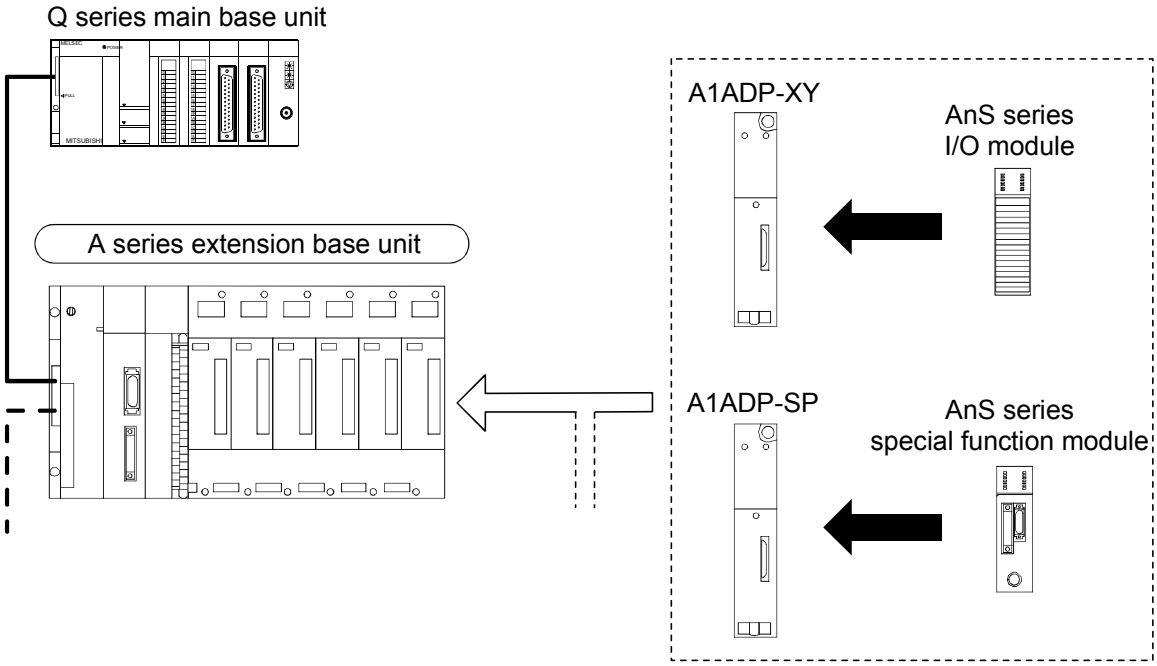
Available modules[*1]			
AJ72P25	AJ72P25-S3	AJ72R25	AJ72T25B
AJ72LP25	AJ72LP25G	AJ72LR25	AJ72BR15
AJ72QLP25	AJ72QLP25G	AJ72QLR25	AJ72QBR15

*1: There are restrictions on the available modules. For details, refer to the following manuals.

- Type MELSECNET, MELSECNET/B Data Link System Reference Manual
- Type MELSECNET/10 Network System (Remote I/O network) Reference Manual
- For QnA/Q4AR MELSECNET/10 Network System Reference Manual
- User's manual for the relevant module

2.2 For installing the A1ADP to the A series extension base unit connected to a Q series base unit

2.2.1 System Configuration



2.2.2 Available Base Units List

The following table shows the base units to which the A1ADP can be installed.
Up to three A1ADPs can be installed to one base unit.

Extension base unit		Remarks
Type	Number of installable adapters	
A68B	3	Install the QA6ADP to an extension main base unit. However, the modules that can be installed to have restrictions. For details, refer to the QA6ADP QA Conversion Adapter Module User's Manual.
A68B-UL	3	
A65B	3	
A65B-UL	3	
A62B	2	
A58B	3	
A58B-UL	3	
A55B	3	
A55B-UL	3	
A52B	2	
QA68B	3	The modules that can be installed to have restrictions. For details, refer to the QA65B/QA68B Extension Base Unit User's Manual.
QA65B	3	

2.2.3 Available CPU modules list

The following table shows the CPU modules available for the A1ADP use.

Available CPU module				
Q02CPU	Q02HCPU	Q06HCPU	Q12HCPU	Q25HCPU

2.3 Precautions for Use

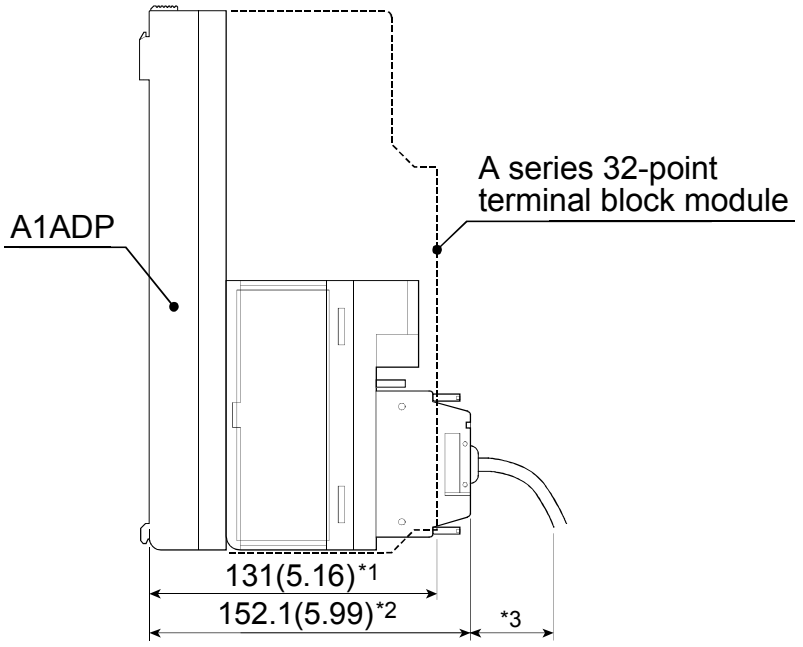
(1) When replacing the A (large type) series module by the A1ADP + AnS series module, the internal current consumption may increase.
At replacement, make sure to check the 5VDC internal current consumption of the modules before and after replacement. If the 5VDC internal current consumption increases after the replacement, confirm that the current consumption of the modules used does not exceed the rated output current of the power supply module used.

(2) When the A1ADP + AnS series module is installed to an extension base unit not needing a power supply module (A52B, A55B, or A58B) in the case that the increase in 5VDC internal current consumption may cause, voltage drop increases in the extension cable. Therefore, recalculating the receiving end voltage is required.
(For confirmation method, refer to the "Application standards of Extension Base Units" (A52B, A55B, or A58B) in the CPU module's User's Manual.)

(3) The A (large type) series module differs from the A1ADP+AnS series module in specifications. For the equivalent products and specifications comparison, refer to Chapter 8 and the Transition from MELSEC-A/QnA Large Type Series to AnS/Q2AS Small Type Series Handbook (L(NA)08064ENG).

(4) AnS series 32-point I/O modules and special function modules are connector type. Accordingly, when installing them to an A series base unit using the A1ADP, its depth is deeper than when installing an A series 32-point module.
When using the AnS series 32-point I/O modules or special function modules, confirm that there is enough room.

Example When replacing the A series 32-point module



Unit: mm (inch)

*1: Depth dimension of the A series 32-point terminal block module
*2: Depth dimension of the A1ADP + AnS series 32-point connector type module
*3: Consider the bending radius of a connector cable.

(5) The AnS series output module with a fuse detects fuse blown if external supply power has not been input.
Use special relay M9084 or SM1084 (error check) at power-on with the external supply power OFF so that fuse blown may not be detected.

(6) When mounting the A1ADP-XY+AnS series output module with a fuse on the MELSECNET/II remote I/O station (AJ72P25 or AJ72R25), the CPU module of the master station may detect "UNIT VERIFY ERR.".
However, note that the AJ72P25 or AJ72R25 whose software version is "P" or later is used, "UNIT VEFIRY ERR." will not be detected.
Turning ON the power supply of the master station after turning ON the power supply of the remote I/O station and the 24VDC external power supply enables to avoid "UNIT VEFIRY ERR.".
Also, if the fuse blown is detected, cancel the error by the reset operation of the CPU module used.

3. SPECIFICATIONS

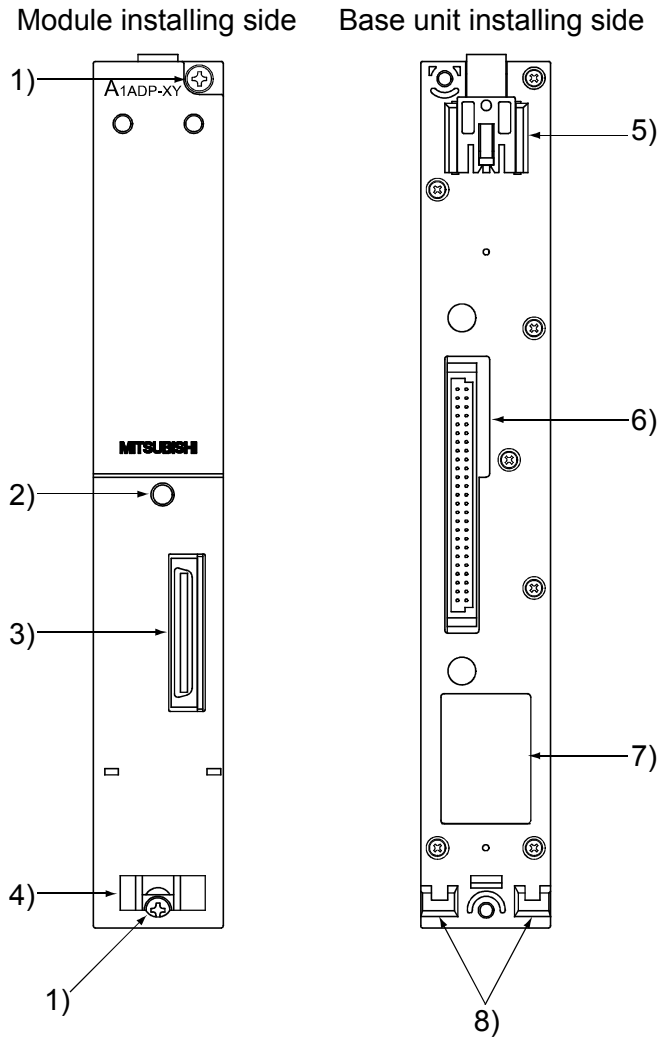
3.1 Performance Specifications

The performance specifications of the A1ADP are shown below.

Specification	A1ADP-XY	A1ADP-SP
5VDC internal current consumption	3.4mA	0mA
External dimensions	250(H)×37.5(W)×35.5(D) (9.84×1.48×1.40) mm (inch)	
Weight	0.20kg	

4. PARTS NAMES

Each part name of the A1ADP is shown in the table below.



No.	Name	Usage
1)	Adapter mounting screw	A screw for installing the A1ADP to a base unit (Make sure to tighten the screw).
2)	Module mounting screw hole	A screw hole for fixing the A1ADP to AnS series module (for M4 screw) (Make sure to tighten the screw).
3)	Module connector	A connector for connecting the A1ADP to AnS series module.
4)	Projection mounting hole for fixing A1S module	A hole for attaching the module fixing projection on AnS series module.
5)	Adapter fixing hook	A hook for fixing it to the module fixing hole on a base unit.
6)	Base connector	A connector for connecting the A1ADP to a base unit.
7)	Rating plate	A seal such as the product name is described.
8)	Adapter fixing projection	A projection for fixing it to the module fixing hole on a base unit.

5. LOADING AND INSTALLATION

5.1 Precautions when Handling

The following is an explanation of handling precautions of the A1ADP.

(1) Since the adapter case is made of plastic, do not drop it or subject it to mechanical impact to it.

(2) Execute tightening of installation screws within the range indicated below.

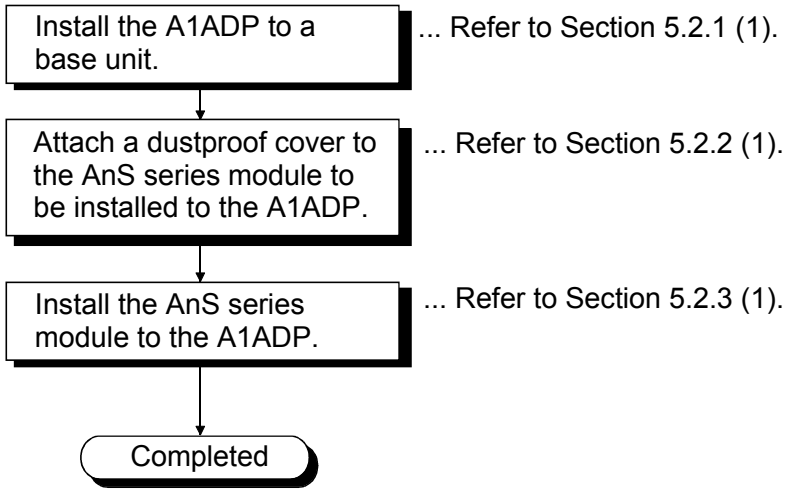
Screw location	Tightening torque range
Module installation screw of AnS series (M4 screw)	78 to 118N•cm
Adapter mounting screw (M4 screw)	78 to 118N•cm

(3) To correctly install the adapter module to the base unit, insert the adapter fixing projections provided at the bottom of the module in the module mounting holes in the base unit. And then, secure the module by tightening the adapter mounting screw.
To remove the module, remove the adapter mounting screw first. And then, pull out the module so that the adapter fixing projections are removed from the holes in the base unit.

5.2 Installation/Removal Procedures of the A1ADP + AnS Series Module

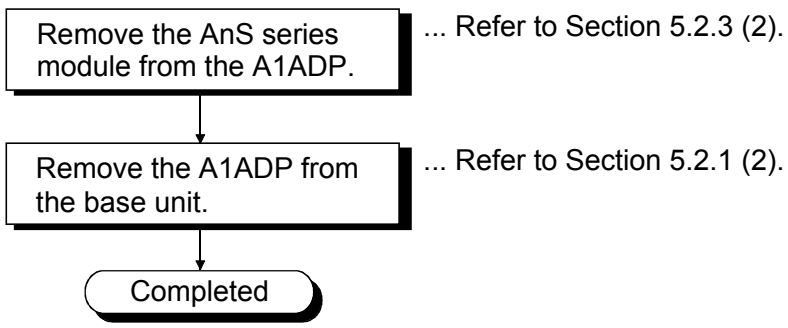
This section describes the procedures for installing/removing the A1ADP to/from a base unit and AnS series module.

(1) Installation procedure



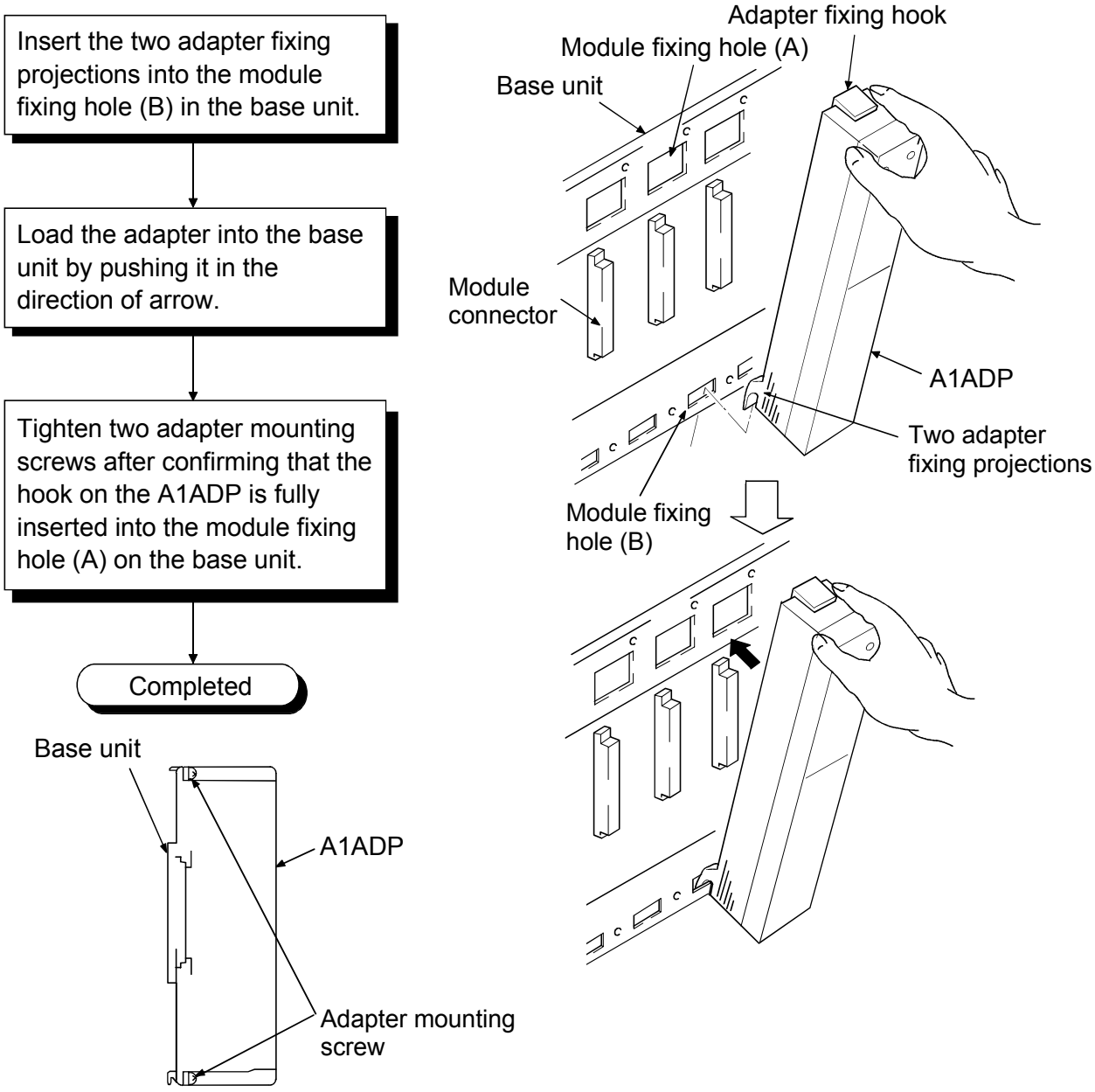
POINT
Note when installing the AnS series module before tightening an adapter mounting screw of the A1ADP, the tightening cannot be done.

(2) Removal procedure



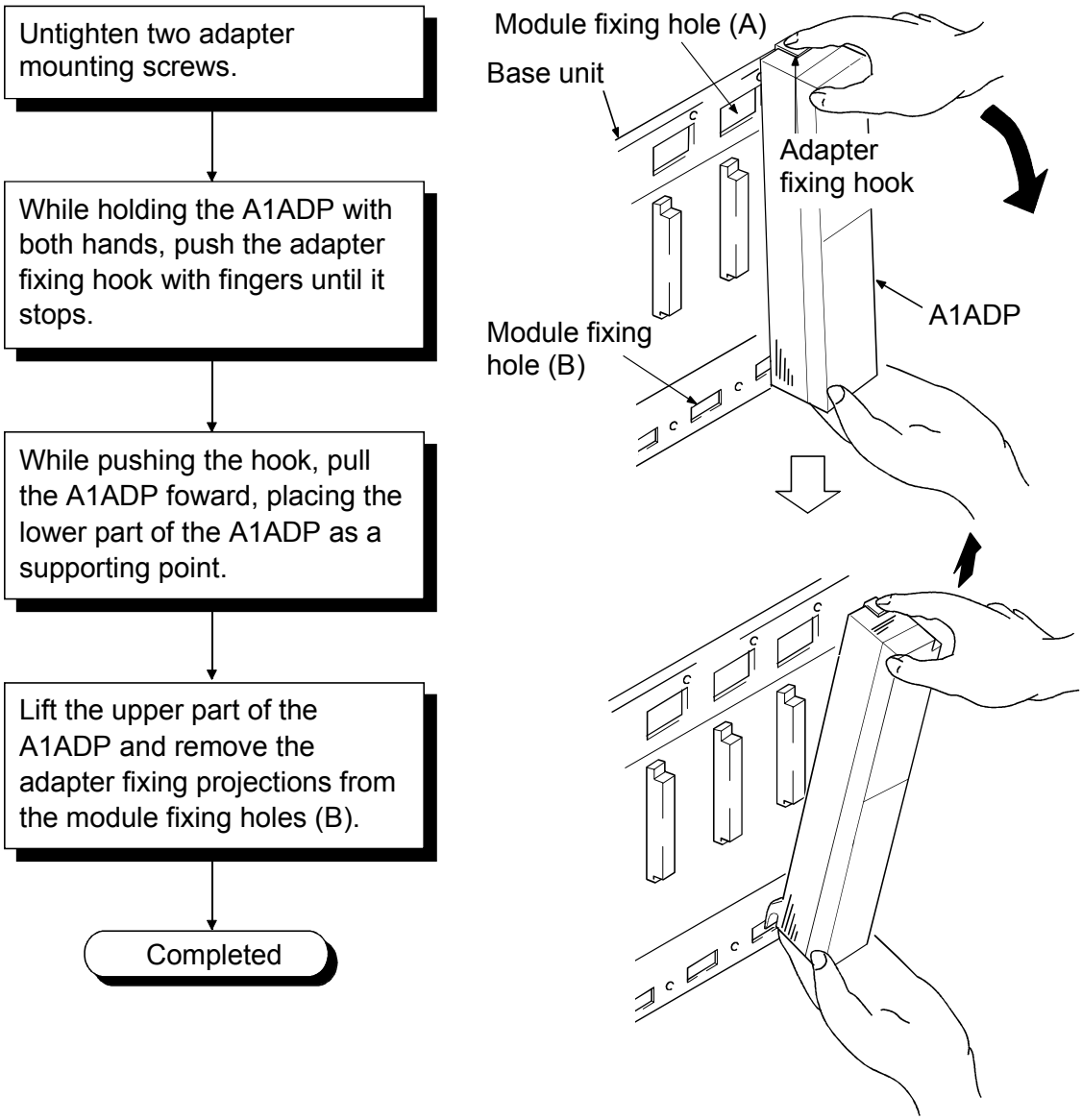
5.2.1 Installing/removing the A1ADP

(1) A1ADP installation



POINT
For fixing the A1ADP, insert the adapter fixing projections into the module fixing holes (B). Forceful installation may damage the module connector and/or A1ADP.

(2) A1ADP removal



POINT

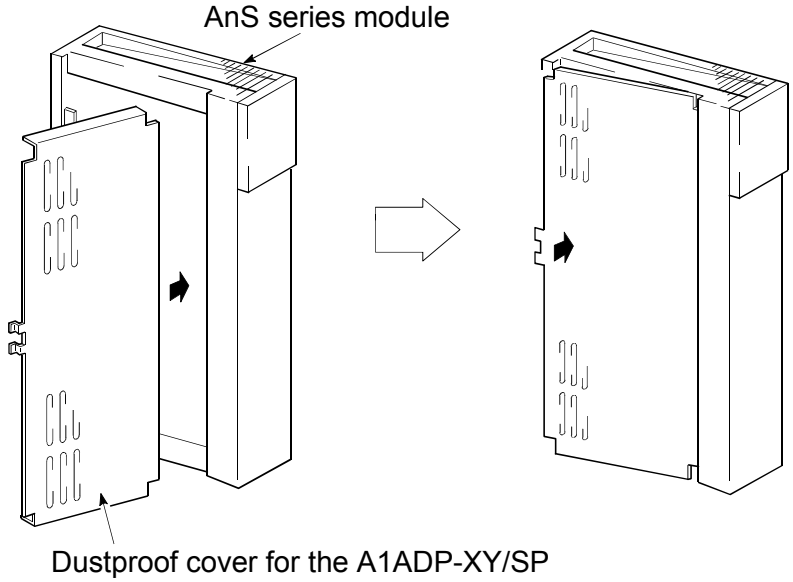
Before removing the A1ADP, make sure to untighten two adapter mounting screws. Then, remove the adapter fixing hook from a module fixing hole (A), and also the adapter fixing projections from a module fixing holes (B). Forcefully removing the adapter may damage the adapter fixing hook and/or the adapter fixing projections.

5.2.2 Installing/removing the dustproof cover

Before installing the AnS series module to the A1ADP, attach the dustproof cover for the A1ADP-XY/SP, included with the A1ADP, to the module.
If no dustproof cover is attached, foreign matter will enter the module, resulting in a failure. Furthermore, internal parts of the module may be flied in the short circuit test or when an overcurrent or overvoltage is accidentally applied to the external I/O section.

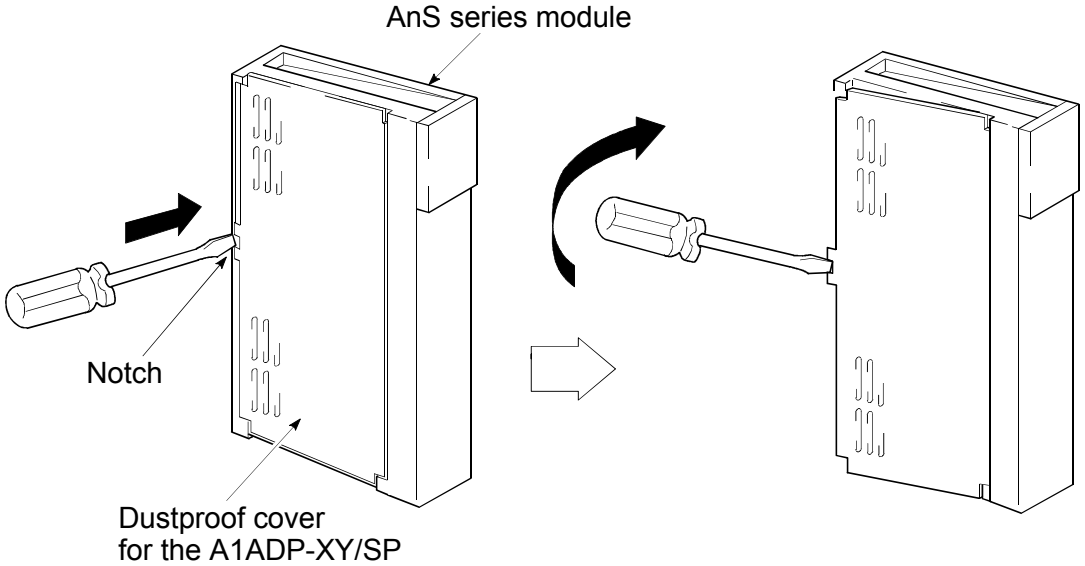
(1) Installation

To installation the dustproof cover into the AnS series module, first insert the cover to the terminal side and then press the dustproof cover against the module as shown in the figure.



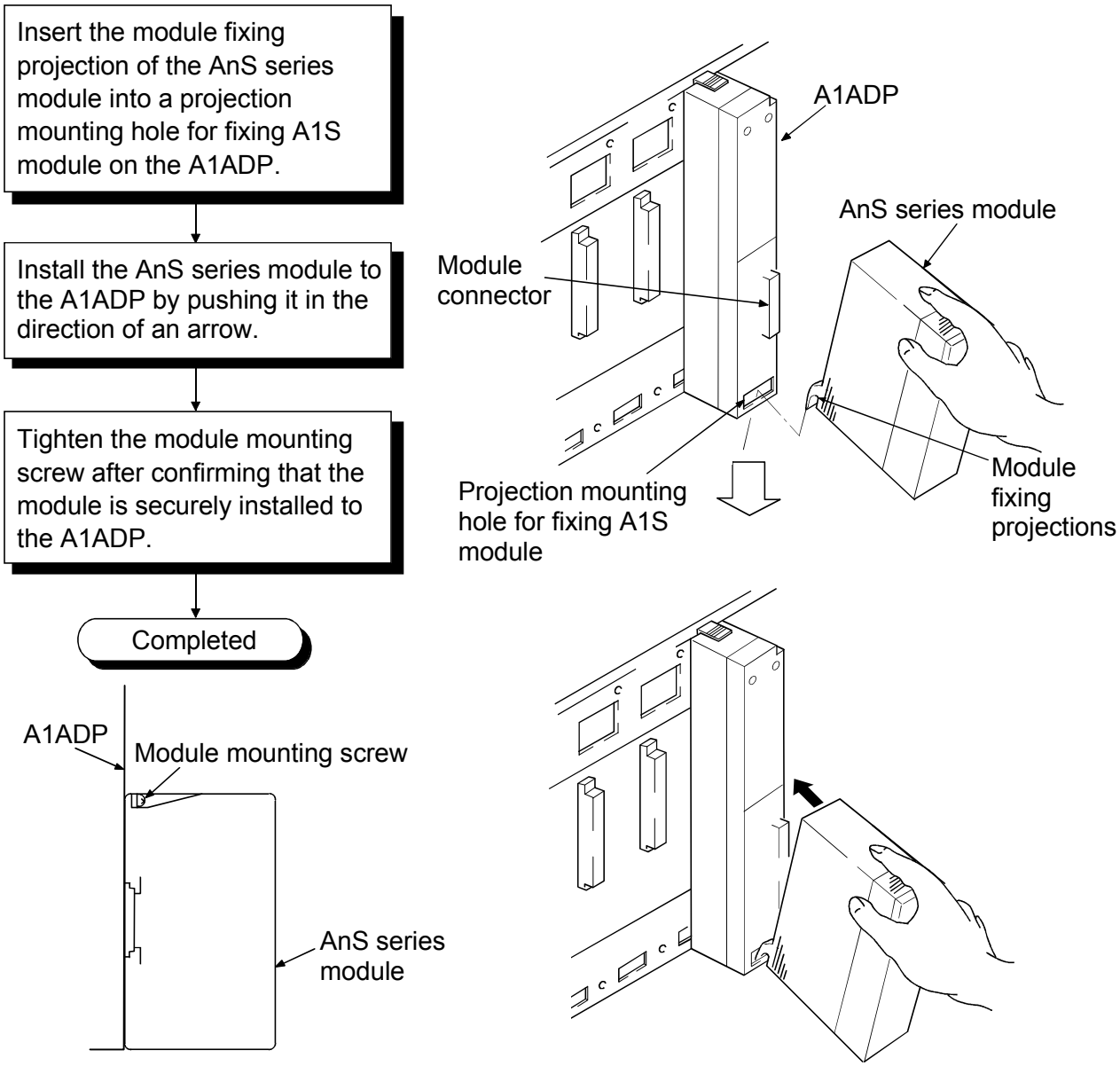
(2) Removal

To remove the dustproof cover from the I/O module, insert the tip of a flat-head screwdriver into the hole as shown in the figure, then pry the tab of the cover out from the hole using the screwdriver.



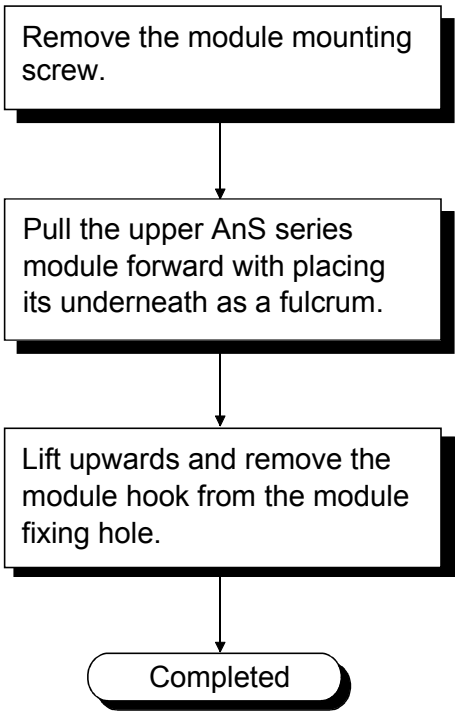
5.2.3 Installing/removing the AnS series module

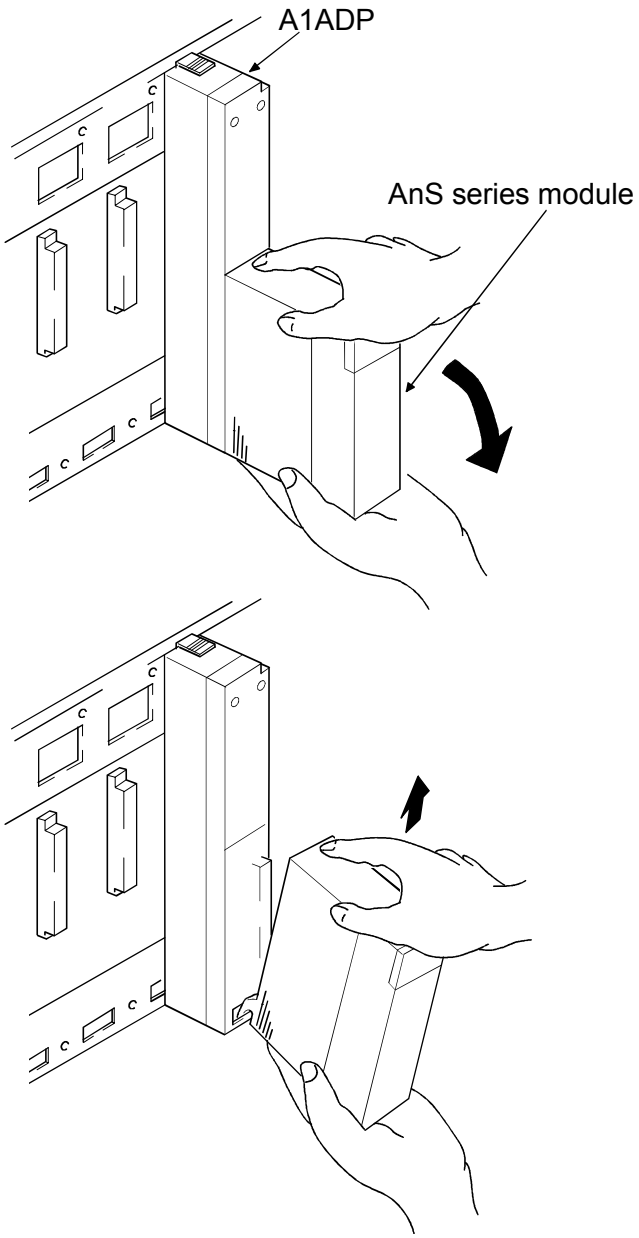
(1) AnS series module installation



POINT
For fixing the AnS series module, insert the module fixing projection into the module fixing hole. Forceful installation may damage the module connector and/or A1ADP.

(2) AnS series module removal





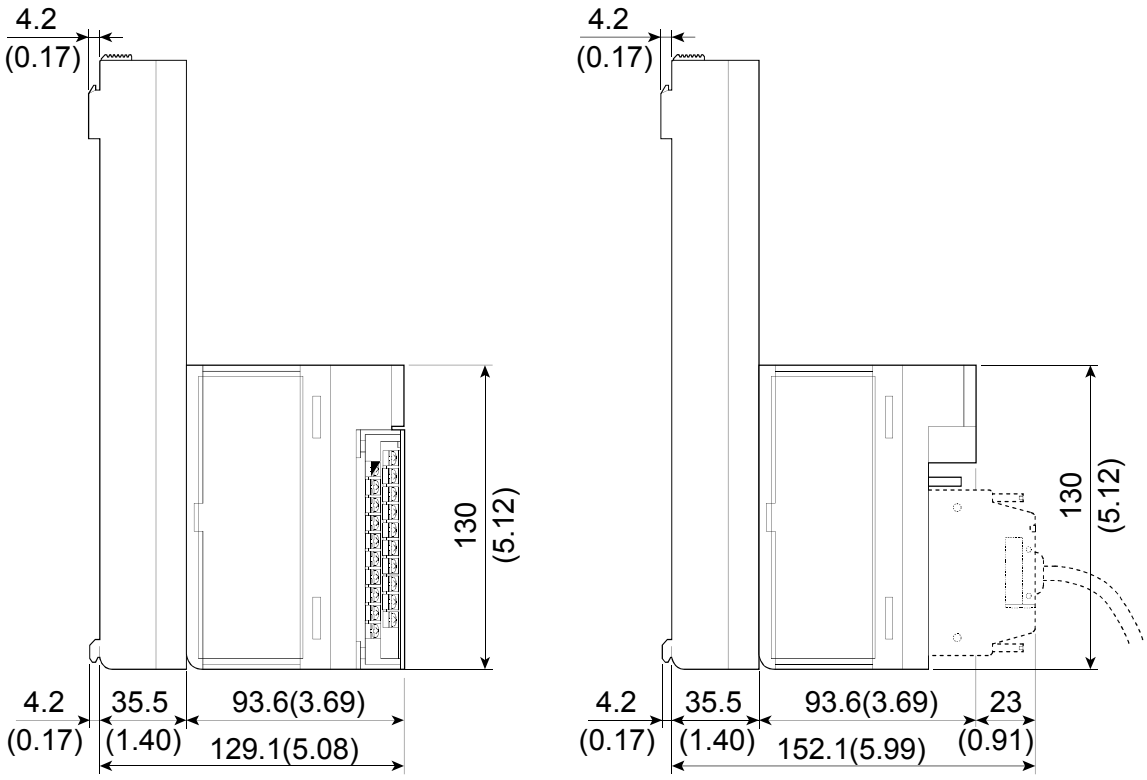
POINT

For removing the AnS series module, untighten the module mounting screw first and then remove the module fixing projection from the module fixing hole. Forceful installation may damage the module connector and/or A1ADP.

6. EXTERNAL DIMENSIONS

The external dimensions of the A1ADP are shown below.

When a module is installed



Unit: mm (inch)

7. COMPATIBLE MODELS LIST

This section describes the AnS series modules that can be installed to the A1ADP.

Product	Model	Mounting of the A1ADP			Applicable adapter
		QCPU	QnACPU	ACPU	
Input module	A1SX10	○			XY
	A1SX10EU	○			XY
	A1SX20	○			XY
	A1SX20EU	○			XY
	A1SX30	○			XY
	A1SX40	○			XY
	A1SX40-S1	○			XY
	A1SX40-S2	○			XY
	A1SX41	○			XY
	A1SX41-S1	○			XY
	A1SX41-S2	○			XY
	A1SX42	○			XY
	A1SX42-S1	○			XY
	A1SX42-S2	○			XY
	A1SX71	○			XY
	A1SX80	○			XY
	A1SX80-S1	○			XY
	A1SX80-S2	○			XY
	A1SX81	○			XY
	A1SX81-S2	○			XY
	A1SX82-S1	○			XY
Output module	A1SY10	○			XY
	A1SY10EU	○			XY
	A1SY14EU	○			XY
	A1SY18A	○			XY
	A1SY18AEU	○			XY
	A1SY22	○			XY
	A1SY28A	○			XY
	A1SY40	○			XY
	A1SY40P	○			XY
	A1SY41	○			XY
	A1SY41P	○			XY
	A1SY42P	○			XY
	A1SY50	○			XY
	A1SY60	○			XY
	A1SY60E	○			XY
	A1SY68A	○			XY
	A1SY71	○			XY
	A1SY80	○			XY
	A1SY81	○			XY
	A1SY82	○			XY

"Mounting of the A1ADP" field ○: Mountable ×: Not mountable
"Applicable adapter" field XY: A1ADP-XY SP: A1ADP-SP -: Not available

Product	Model	Mounting of the A1ADP			Applicable adapter
		QCPU	QnACPU	ACPU	
I/O module	A1SH42	○			XY
	A1SH42P	○			XY
	A1SH42-S1	○			XY
	A1SH42P-S1	○			XY
	A1SX48Y58	○			XY
	A1SX48Y18	○			XY
	A1SJ-56DR	×			-
	A1SJ-56DT	×			-
Dynamic scan input module	A1S42X	○			XY
Dynamic scan output module	A1S42Y	○			XY
Dummy module	A1SG62	○			XY
Interrupt module	A1SI61	○			XY[*1]
Power supply module	A1S61PN	×			-
	A1S62PN	×			-
	A1S63P	×			-
Pulse catch module	A1SP60	○			XY
Analog timer module	A1ST60	○			XY
Analog input module	A1S64AD	○			SP
	A1S68AD	○			SP
Analog output module	A1S62DA	○			SP
	A1S68DAI	○			SP
	A1S68DAV	○			SP
Analog I/O module	A1S63ADA	○			SP
	A1S66ADA	○			XY
Temperature input module	A1S62RD3N	○			SP
	A1S62RD4N	○			SP
	A1S68TD	○			SP
Temperature control module	A1S62TCTT-S2	○			SP
	A1S62TCRTBW-S2	○			SP
	A1S62TCRT-S2	○			SP
	A1S62TCTTBW-S2	○			SP
	A1S64TCTT-S1	○			SP
	A1S64TCTTBW-S1	○			SP
	A1S64TCRT-S1	○			SP
	A1S64TCRTBW-S1	○			SP
	A1S64TCTRT	○			SP
	A1S64TCTRTBW	○			SP
High-speed counter module	A1SD61	○			SP
	A1SD62	○			SP
	A1SD62E	○			SP
	A1SD62D	○			SP
	A1SD62D-S1	○			SP
Positioning module	A1SD70	×			-
	A1SD75M1	○			SP
	A1SD75M2	○			SP
	A1SD75M3	○			SP

"Mounting of the A1ADP" field ○: Mountable ×: Not mountable
"Applicable adapter" field XY: A1ADP-XY SP: A1ADP-SP -: Not available

Product	Model	Mounting of the A1ADP			Applicable adapter
		QCPU	QnACPU	ACPU	
Positioning module	A1SD75P1-S3	○			SP
	A1SD75P2-S3	○			SP
	A1SD75P3-S3	○			SP
Position detection module	A1S62LS	○			SP
Intelligent communication module	A1SD51S	○			SP
Ethernet module	A1SJ71E71N-B2	×	○	○	SP
	A1SJ71E71N-B5	×	○	○	SP
	A1SJ71E71N3-T	×	○	○	SP
	A1SJ71QE71N-B2	×	○	×	SP
	A1SJ71QE71N-B5	×	○	×	SP
	A1SJ71QE71N3-T	×	○	×	SP
Serial communication module	A1SJ71QC24N	×	○	×	SP
	A1SJ71QC24N-R2	×	○	×	SP
	A1SJ71QC24N1	×	○	×	SP
	A1SJ71QC24N1-R2	×	○	×	SP
MELSECNET/B data link module	A1SJ71AT21B	×	○	○	SP
	A1SJ72T25B	×			-
MELSECNET data link module	A1SJ71AP21	×	○	○	SP
	A1SJ71AR21	×	○	○	SP
MELSECNET, MELSECNET/B local station data link module	A1SJ71AP23Q	○	×	×	SP
	A1SJ71AR23Q	○	×	×	SP
	A1SJ71AT23BQ	○	×	×	SP
CC-Link system master/local module	A1SJ61BT11	×	×	○	SP
	A1SJ61QBT11	○	○	×	SP
MELSECNET/ MINI-S3 master module	A1SJ71PT32-S3	○			SP
MELSEC-I/O LINK master module	A1SJ51T64	○			SP*1
JEMANET (OPCN-1) interface module	A1SJ71J92-S3	○			SP
	A1SJ72J95	×			-
B/NET interface module	A1SJ71B62-S3	○			SP
Computer link module	A1SJ71UC24-R2	×	○	○	SP
	A1SJ71UC24-PRF	×	○	○	SP
	A1SJ71UC24-R4	○*2	○	○	SP
S-LINK master module	A1SJ71SL92N	○			SP
AS-i master module	A1SJ71AS92	○			SP
Modem interface module	A1SJ71CMO-S3	×	○	○	SP
PC fault detection module	A1SS91	○			SP*1
Memory card interface module	A1SD59J-S2	○			SP
ID interface module	A1SD35ID1	○			SP
	A1SD35ID2	○			SP
MODBUS module	A1SJ71UC24-R2-S2	○			SP
	A1SJ71UC24-R4-S2	○			SP
Profibus-DP interface module	A1SJ71PB92D	○			SP
	A1SJ71PB93D	○			SP
Profibus-FMS interface module	A1SJ71PB96F	○			SP
DeviceNet master module	A1SJ71DN91	○			SP

"Mounting of the A1ADP" field ○: Mountable ×: Not mountable

"Applicable adapter" field XY: A1ADP-XY SP: A1ADP-SP -: Not available

*1: Take care since the combination of the module type configured in the I/O assignment setting and the A1ADP model that can be combined differs.

*2: The adapter is mountable only when the multidrop link function is used.

8. REPLACEABLE MODULES LIST

The following lists the A/QnA (large type) series modules that can be replaced by the A1ADP + AnS series module.

8.1 How to See the List

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Ethernet module	AJ71E71N-B2 670mA	A1SJ71E71N-B2 660mA	○	No restrictions	SP
Input module	AX50-S1 55mA	None	×	Alternating with A1SX40 is recommended. 1) External wiring: Changed Connect a 4.7kΩ (1/2W or more) to the external signal wire serially. 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFFvoltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	Not used
i	ii	iii	iv		v

Description

i … Classifies the transition list by a product.

ii … Indicates each module name of the A series and its 5VDC internal current consumption.

iii … Indicates each module name of the AnS series and its 5VDC internal current consumption.

5VDC internal current consumption for the A1ADP + AnS series module is calculated by adding the 5VDC internal current consumption for the A1ADP to this value.
For the A1ADP-XY: The value above + 3.4mA
For the A1ADP-SP: The value above + 0mA

iv … Indicates whether any restriction is given or not when mounting the A1ADP + AnS module (A module with the name provided in the Model column.).

○	No restrictions
△	Partially restricted. The restriction outline is described in the Remark (restrictions) column.
×	No alternative model The alternating method is described in the Remark (restrictions) column.
× (△ as for specifications)	The performance specifications are compatible while the module cannot be mounted due to the expanded module width.

v … Indicates an installable A1ADP model.

XY	A1ADP-XY (An adapter only for I/O modules)
SP	A1ADP-SP (An adapter only for special function modules)
Not used	Either of the A1ADPs cannot be installed.

POINT

(1) When replacing the A series module by the A1ADP + AnS series module, the internal current consumption may increase.
At replacement, make sure to check the 5VDC internal current consumption of the modules before and after replacement. If the 5VDC internal current consumption increases after the replacement, confirm that the current consumption of the modules used does not exceed the rated output current of the power supply module used.

(2) If the A1ADP + AnS series module is mounted to an extension base unit (type requiring no power supply module) (A52B, A55B, or A58B) when 5VDC internal current consumption is increased, voltage drop increases in the extension cable. Therefore, recalculating the receiving end voltage is required. (For confirmation method, refer to the "Application standards of Extension Base Units" (A52B, A55B, or A58B) in the CPU module's User's Manual.)

(3) If the execution of (1) or (2) results in excess of rated output current of a power supply module, or drop of receiving end voltage to less than 4.75VDC, take the following measures.
1) Review the system configuration.
2) Do not use the transition models.

(4) As for the following nine models, the current consumption is greatly increased by the transition. Pay special attention to the models in (1) to (3) above.
1) AY41(-UL)(230mA) → A1SY41(500mA)*1
2) AY70(100mA) → A1SY71(400mA)
3) AY81(230mA) → A1SY81(500mA)
4) AY82EP(290mA) → A1SY82(930mA)
5) AH42(245mA) → A1SH42(500mA)
6) A68DAI-S1(150mA) → A1S68DAI(850mA)
7) A68DAV(150mA) → A1S68DAV(650mA)
8) AJ71E71N-T(400mA) → A1SJ71E71N3-T(690mA)

*1: For this model, refer to A1SY4□P in the transition lists from Section 8.2 to Section 8.4. For replacement with the A1SY4□, refer to the manual for the specifications.

8.2 List of Transition from the A Series to AnS Series

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model		Restrictions	Applicable adapter
Input module	AX10 55mA	A1SX10 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX10-UL 55mA	A1SX10 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX11 110mA	A1SX10 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX11EU 150mA	A1SX10EU 50mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model		Restrictions	Applicable adapter
Input module	AX20 55mA	A1SX20 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX20-UL 55mA	A1SX20 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX21 110mA	A1SX20 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated input voltage: Changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX21EU 150mA	A1SX20EU 50mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model		Restrictions	Applicable adapter
Input module	AX31 110mA	A1SX30 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated input voltage: Changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX31-S1 110mA	A1SX41 80mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX40 55mA	A1SX40 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX40-UL 55mA	A1SX40 50mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Input module	AX41 110mA	A1SX41 80mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX41-UL 110mA	A1SX41 80mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX41-S1 110mA	A1SX41-S1 120mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Changed (12VDC not applicable) Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Input module	AX42 120mA	A1SX42 90mA	△	1) External wiring: Not changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX42-S1 120mA	A1SX42-S1 160mA	△	1) External wiring: Not changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Changed (12VDC not applicable) Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AX50-S1 55mA	None	×	Alternating with A1SX40 is recommended. 1) External wiring: Changed Connect a 4.7kΩ (1/2W or more) to the external signal wire serially. 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	Not used

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Input module	AX60-S1 55mA	None	×	Alternating with A1SX40 is recommended. 1) External wiring: Changed Connect a 15kΩ (3W or more) to the external signal wire serially. 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	Not used
	AX70 55mA	A1SX71 75mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AX70-UL 55mA	A1SX71 75mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model		Restrictions	Applicable adapter
Input module	AX71 110mA	A1SX71 75mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX80 55mA	A1SX80 50mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX80-UL 55mA	A1SX80 50mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX80E 55mA	A1SX80-S1 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Changed (12VDC not applicable) Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Input module	AX81 110mA	A1SX81 80mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX81B 55mA	None	×	Alternating with A1SX81 is recommended. 1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: The wire breakage detection function not provided	Not used
	AX81-S1 105mA	A1SX81 80mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Not changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Input module	AX81-S2 110mA	None	×	Alternating with A1SX81 is recommended. 1) External wiring: Changed (Connector terminal block must be converted.) Connect a 3.3kΩ (1/2W or more) or 8.2kΩ (1W or more) resistor serially to the external signal wire at 48VDC or 60VDC, respectively. 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Changed Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	Not used
	AX81-S3 110mA	A1SX80-S1 50mA	△	1) External wiring: Changed Screw size: M3→M3.5 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Changed 4) Specifications Rated input voltage: Changed (12VDC not applicable) Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
	AX82 120mA	A1SX82-S1 160mA	△	1) External wiring: Changed (D sub→FCN connector) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated input voltage: Changed (12VDC not applicable) Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY10 115mA	A1SY10 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY10A 115mA	A1SY18A 240mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY10A-UL 115mA	A1SY18A 240mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY11 115mA	A1SY10 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Changed (No varistor, relay not replaceable) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY11A 115mA	A1SY18A 240mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Changed (No varistor) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY11AEU 115mA	A1SY18A EU 240mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Changed (No varistor) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY11E 115mA	A1SY10 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Changed (No fuse, no varistor) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY11EEU 115mA	A1SY10EU 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Changed (No fuse, no varistor) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY11-UL 115mA	A1SY10 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Changed (No varistor) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model		Restrictions	Applicable adapter
Output module	AY13 230mA	A1SY10 120mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Not changed	XY
	AY13E 230mA	A1SY10 120mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Changed (No fuse)	XY
	AY13EU 230mA	A1SY10EU 120mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model		Restrictions	Applicable adapter
Output module	AY15EU 150mA	A1SY14EU 120mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed (However, contact life span is reduced to half.) 5) Functions: Not changed	XY
	AY22 305mA	A1SY22 270mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Changed (Output 2A→0.6A) 5) Functions: Changed (No fuse, no varistor)	XY
	AY23 590mA	A1SY22 270mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Changed (No fast blow fuse)	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model		Restrictions	Applicable adapter
Output module	AY40 115mA	A1SY40P 79mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY
	AY40-UL 115mA	A1SY40P 79mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY
	AY40A 190mA	A1SY68A 110mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed Response: Slow 5) Functions: Not changed	XY
	AY41 230mA	A1SY41P 141mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY41-UL 230mA	A1SY41P 141mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY
	AY42 340mA	A1SY42P 170mA	○	1) External wiring: Not changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY
	AY42-S1 290mA	A1SY42P 170mA	△	1) External wiring: Not changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed Response time: Changed (from 0.3ms to 1ms or less) 5) Functions: Not changed	XY
	AY42-S3 290mA	A1SY42P 170mA	○	1) External wiring: Not changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Changed (The short protection function equivalent to fuse included)	XY
	AY42-S4 500mA	A1SY42P 170mA	△	1) External wiring: Changed (External supply power is required.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY50 115mA	A1SY50 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Changed (Fuse not replaceable) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY50-UL 115mA	A1SY50 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Changed (Fuse not replaceable) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY51 230mA	A1SY50 120mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY51-S1 230mA	A1SY50 120mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Changed (Fuse not replaceable)	XY
	AY51-UL 230mA	A1SY50 120mA	△	1) External wiring: Changed 2) Number of slots: Changed (2 modules required) Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Not changed (32=16×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed	XY
	AY60 115mA	A1SY60 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Changed (48VDC not applicable) Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY60E 115mA	A1SY60E 200mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Changed (48VDC not applicable) Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY60S 75mA	A1SY60 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Changed (48VDC not applicable) Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY60S-UL 75mA	A1SY60 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Changed (48VDC not applicable) Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY70 100mA	A1SY71 400mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY70-UL 100mA	A1SY71 400mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY71 200mA	A1SY71 400mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY72 300mA	A1SY71 400mA	△	1) External wiring: Not changed 2) Number of slots: Changed (2 modules required) 3) Program Number of occupied I/O points: Not changed (64=32×2) 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY80 115mA	A1SY80 120mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Changed (Fuse not replaceable) 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
	AY81 230mA	A1SY81 500mA	△	1) External wiring: Changed (Connector terminal block must be converted.) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Changed (Output 0.5A→0.1A) 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Output module	AY82EP 290mA	A1SY82 930mA	△	1) External wiring: Changed (D sub→FCN connector) 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Not changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
I/O module	AH42 245mA	A1SH42 500mA	△	1) External wiring: Not changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed (32 points occupied) 4) Specifications Rated output voltage: Changed (12VDC not applicable) Rated output current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed 6) Since internal current consumption increases by combination with the A1ADP-XY, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	XY
		A1SH42P 130mA	△	1) External wiring: Not changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed (32 points occupied) 4) Specifications Rated input voltage: Changed (12VDC not applicable) Rated input current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model		Restrictions	Applicable adapter
Dynamic scan I/O module	A42XY 110mA	A1S42X 80mA A1S42Y 180mA	△	1) External wiring: Changed 2) Number of slots: Changed Since internal current consumption increases by combination with the A1ADP-XY, when using the two modules, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)). 3) Program Number of occupied I/O points: Changed (128 points occupied: 64×2) 4) Specifications Rated output voltage: Changed (12VDC not applicable) Rated output current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Not changed	XY
Dummy module	AG62 70mA	A1SG62 60mA	○	No restrictions	XY
Blanking module	AG60	A1SG60	○	No restrictions	XY/SP
Interrupt module	AI61 140mA	A1SI61 57mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Not changed 4) Specifications Rated output voltage: Not changed Rated output current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Changed (Interrupt processing condition can be set in 4-point unit.)	XY
	AI61-S1 140mA	A1SI61 57mA	△	1) External wiring: Changed 2) Number of slots: Not changed 3) Program Number of occupied I/O points: Changed (16 points occupied) 4) Specifications Rated output voltage: Not changed Rated output current: Changed ON voltage/ON current: Changed OFF voltage/OFF current: Changed Input resistance: Changed 5) Functions: Changed (Interrupt processing condition can be set in 4-point unit.) 6) Others: The response time is different.	XY

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Analog input module	A616AD 1000mA	None	×	Using the A1S68AD is recommended. 1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Changed (2 modules required) 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: 8CH/module, input signals (Only plus current can be input.) 5) Function specifications: Multiplexer function not available	Not used
	A68AD 390mA	A1S68AD 400mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: I/O characteristics 5) Function specifications: Setting method of the A/D conversion disable function has been changed 6) Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	A68AD-S2 390mA	A1S68AD 400mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: I/O characteristics 5) Function specifications: Not changed 6) Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	A68ADN 400mA	A1S68AD 400mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: I/O characteristics and resolution 5) Function specifications: Not changed	SP

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Multi-plexer	A60MX 650mA	None	×	Alternating with multiple A1S68AD modules is recommended.	Not used
	A60MXRN 350mA	None	×	Using multiple A1S68ADs and perform isolation between channels is recommended.	Not used
	A60MXR 500mA	None	×	Using multiple A1S68ADs and perform isolation between channels is recommended.	Not used
	A60MXTN 640mA	None	×	Alternating with multiple A1S68TD modules is recommended.	Not used
	A60MXT 800mA	None	×	Alternating with multiple A1S68TD modules is recommended.	Not used
Analog output module	A616DAI 300mA	None	×	Using the A1S68DAI is recommended. 1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Changed (2 modules required) 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: 8CH/module, input current range 5) Function specifications: The relation between the D/A conversion disable channel and the conversion time is changed.	Not used
	A616DAV 380mA	None	×	Using the A1S68DAV is recommended. 1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Changed (2 modules required) 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: 8CH/module, resolution and accuracy 5) Function specifications: The relation between the D/A conversion disable channel and the conversion time is changed.	Not used
	A62DA 600mA	A1S62DA 800mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: I/O characteristics and conversion time 5) Function specifications: Not changed 6) Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Analog output module	A62DA-S1 600mA	A1S62DA 800mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: I/O characteristics and conversion time 5) Function specifications: Not changed 6) Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	A68DAI-S1 150mA	A1S68DAI 850mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: Output current range, I/O characteristics, and increased current consumption 5) Function specifications: Not changed 6) Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	A68DAV 150mA	A1S68DAV 650mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: Output current range, I/O characteristics, and increased current consumption 5) Function specifications: Not changed 6) Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Tempera-ture input module	A616TD 1000mA	None	×	Using the A1S68TD is recommended. 1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Changed (2 modules required) 3) Program: I/O signals and buffer memory address are changed. 4) Performance specifications change: 8CH/module, input temperature range, and conversion accuracy 5) Function specifications: The relation between the conversion disable channel and the conversion time is changed.	Not used
	A68RD3N 940mA	None	×	Using the A1S62RD3N is recommended. 1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Changed (4 modules required) 3) Program: Changed 4) Performance specifications change: 2CH/module 5) Function specifications: Not changed	Not used
	A68RD4N 410mA	None	×	Using the A1S62RD4N is recommended. 1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Changed (4 modules required) 3) Program: Changed 4) Performance specifications change: 2CH/module 5) Function specifications: Not changed	Not used
High-speed counter module	AD61 300mA	A1SD62 100mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: Buffer memory address is changed. 4) Performance specifications change: Upward-compatibility 5) Function specifications: Upward-compatibility	SP
	AD61-S1 300mA	A1SD62 100mA	△	1) External wiring: Changed (Terminal block is different.) 2) Number of slots: Not changed 3) Program: Buffer memory address is changed. 4) Performance specifications change: Upward-compatibility 5) Function specifications: Upward-compatibility	SP

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Positioning module	AD70 300mA	A1SD70 300mA	× *1	1) External wiring: Changed (Terminal block i different.) 2) Number of slots: 1 slot 2 slots 3) Program: Not changed 4) Performance specifications change:Not changed 5) Function specifications: Not changedv	Not used
	AD72 900mA	None	×	No alternative model	Not used
	AD75M1 700mA	A1SD75M1 700mA	○	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP
	AD75M2 700mA	A1SD75M2 700mA	○	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP
	AD75M3 700mA	A1SD75M3 700mA	○	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP
	AD75P1-S3 700mA	A1SD75P1 -S3 700mA	○	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP
	AD75P2-S3 700mA	A1SD75P2 -S3 700mA	○	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP
	AD75P3-S3 700mA	A1SD75P3 -S3 700mA	○	No restrictions The A1SD75-C01HA cable is required since the peripheral device connection connector is different.	SP

*1: As for specification, △

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
Position detection module	A61LS 800mA	None	×	No alternative model	Not used
	A62LS-S5 1500mA	None	×	No alternative model	Not used
	A63LS 1350mA	None	×	No alternative model	Not used
Intelligent communi-cation	AD51H-S3 1000mA	A1SD51S 400mA	△	The A1SD51S is different from the AD51H-S3 in the following specifications. AD51H-S3 → A1SD51S 1) Number of tasks: 8→2 2) Memory: 300→60kbytes 3) Parallel: Available→None 4) RS-232 connector: 25-pin→9-pin 5) Number of slots: 2→1 (One slot will be an empty slot.) 6) Memory card I/F: 2→0 (File creation is disabled.) 7) LED display not provided 8) Program record medium: Memory card, EPROM→built-in EEPROM	SP
	AD51-S3 1300mA	A1SD51S 400mA	△	Replace the BASIC program with a program for A1SD51S	SP
Ethernet module	AJ71E71N-B2 670mA	A1SJ71E 71N-B2 660mA	○	No restrictions	SP
	AJ71E71N-B5 550mA	A1SJ71E 71N-B5 570mA	○	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	AJ71E71N-T 400mA	A1SJ71E 71N3-T 690mA	○	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	AJ71E71N3-T 690mA	A1SJ71E 71N3-T 690mA	○	No restrictions	SP

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
MELSECNET/B data link module	AJ71AT21B 720mA	A1SJ71AT21B 660mA	○	No restrictions	SP
MELSECNET data link module	AJ71AP21 500mA	A1SJ71AP21 330mA	○	No restrictions	SP
	AJ71AR21 900mA	A1SJ71AR21 800mA	○	No restrictions	SP
CC-Link master/ local module	AJ61BT11 450mA	A1SJ61BT11 400mA	○	No restrictions	SP
MELSECNET/MINI-S3 master module	AJ71PT32-S3 350mA	A1SJ71PT32-S3 350mA	△	Monitor station function not available	SP
	AJ71T32-S3 300mA	A1SJ71PT32-S3 350mA	△	1) Monitor station function not available 2) Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	AJ71T32-S4 300mA	None	×	Changing the system from MELSECNET/MINI-S3 to CC-Link is recommended.	Not used
MELSEC-I/OLINK master module	AJ51T64 115mA	A1SJ51T64 115mA	○	No restrictions	SP

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
JEMANET (OPCN-1) interface module	AJ71J92-S3 500mA	A1SJ71J92-S3 400mA	○	No restrictions	SP
B/NET interface module	AJ71B62-S3 170mA	A1SJ71B62-S3 80mA	○	No restrictions	SP
Terminal interface module	AJ71C21-S1 900mA	None	×	No alternative model	Not used
Multidrop link module	AJ71C22-S1 1400mA	A1SJ71UC24-R4 100mA	△	The following functions are different. 1) Buffer memory Work area: 61h to 07FF→71h to 0DFFh 2) LED For slave station I/O monitor display: Available→None 3) Setting switch Baud rate setting: Fixed to 38400bps→Settable to 19200/38400 Master/local: Fixed to master→Settable 4) Terminal block screw M4→M3.5 5) Terminal resistor Built-in→externally connected	SP
Host controller high-speed link	AJ71C23-S3 1500mA	None	×	No alternative model	Not used
Computer link module	AJ71UC24 300mA	A1SJ71UC24-PRF[*1] 100mA A1SJ71UC24-R2[*1] 100mA A1SJ71UC24-R4[*1] 100mA	△	1) Either the RS-232 connector or RS-422/485 terminal block A1SJ71UC24-PRF/R2/R4 is available. 2) For the A1SJ71UC24-PRF/R2/R4, the linked operation function between the RS-232 and RS-422 is not available. 3) Number of RS-232 connector pins 25-pin→9-pin	SP
	AJ71C24-S1 1400mA	None	×	No alternative model	Not used
	AJ71C24-S7 1400mA	None	×	No alternative model	Not used

Product	Related model for discontinuation	Transition to the AnS series			
	A series model	AnS series model	Restrictions		Applicable adapter
MODBUS module	AJ71UC24-S2 1400mA	A1SJ71UC24-R2-S2 100mA A1SJ71UC24-R4-S2 100mA	△	Either RS-232 or RS-422/485 interface is available. For AnS series, the linked operation between the RS-232 and RS-422 is not available. RS-232 connector: 25-pin→9-pin	SP
Profibus-DP interface module	AJ71PB92D 540mA	A1SJ71PB92D 560mA	○	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
		A1SJ71PB93D 360mA	○	No restrictions	SP
Profibus-FMS Interface module	AJ71PB96F 540mA	A1SJ71PB96F 560mA	○	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
Device Net master module	AJ71DN91 240mA	A1SJ71DN91 240mA	○	No restrictions	SP
Supersonic linear scale module	A64BTL 1050mA	None	×	No alternative model	Not used
External error check module	AD51FD-S3 1000mA	None	×	No alternative model	Not used
PC fault detection module	AS91 80mA	A1SS91 80mA	○	No restrictions	SP
Vision sensor module	AS25VS 2620mA	None	×	Connecting a commercially available vision sensor and programmable controller with RS232, Ethernet or Digital I/O for data loading is recommended.	Not used
	AS50VS 3300mA	None	×	Connecting a commercially available vision sensor and programmable controller with RS232, Ethernet or Digital I/O for data loading is recommended.	Not used

*1: When the AnACPU communicates in nonprocedural mode using the dedicated instructions (PR/PRN/INPUT), turn on the transmission specification setting switch (SW03) on the module of software version X or later.
If the software version of the module is W or earlier, use the FROM/TO instructions for communication.
There are no restrictions when the AnACPU communicates in nonprocedural mode using the FROM/TO instructions or the used CPU module is except the AnACPU.

8.3 List of Transition from the QnA Series to AnS Series

Product	Related model for discontinuation	Transition to the AnS series			
	QnA series model	AnS series model	Restrictions		Applicable adapter
Ethernet module	AJ71QE71N-B2 560mA	A1SJ71QE71N-B2 530mA	○	No restrictions	SP
	AJ71QE71N-B5 400mA	A1SJ71QE71N-B5 400mA	○	No restrictions	SP
	AJ71QE71N-T 400mA	A1SJ71QE71N3-T 530mA	○	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	AJ71QE71N3-T 530mA	A1SJ71QE71N3-T 530mA	○	No restrictions	SP
Serial communi-cation module	AJ71QC24N 400mA	A1SJ71QC24N 350mA	△	RS-232 connector: 25-pin→9-pin	SP
	AJ71QC24N-R2 300mA	A1SJ71QC24N-R2 300mA	△	RS-232 connector: 25-pin→9-pin	SP
	AJ71QC24N-R4 600mA	A1SJ71QC24N 350mA	△	For Q2AS series, use A1SJ71QC24N and connect the RS232-422 converter to 1ch.	SP
CC-Link master/ local module	AJ61QBT11 450mA	A1SJ61QBT11 100mA	○	No restrictions	SP

8.4 List of Transition from the Q4AR Series to AnS Series

Product	Related model for discontinuation	Transition to the AnS series			
	Q4AR series model	AnS series model	Restrictions		Applicable adapter
Ethernet module	AJ71QE71N-B2 560mA	A1SJ71QE71N-B2 530mA	○	No restrictions	SP
	AJ71QE71N-B5 400mA	A1SJ71QE71N-B5 400mA	○	No restrictions	SP
	AJ71QE71N-T 400mA	A1SJ71QE71N3-T 530mA	○	Since internal current consumption increases by combination with the A1ADP-SP, checking power capacity and receiving end voltage is required (Refer to POINT (1) to (3)).	SP
	AJ71QE71N3-T 530mA	A1SJ71QE71N3-T 530mA	○	No restrictions	SP
Serial communi-cation module	AJ71QC24N 400mA	A1SJ71QC24N 350mA	△	RS-232 connector: 25-pin→9-pin	SP
	AJ71QC24N-R2 300mA	A1SJ71QC24N-R2 300mA	△	RS-232 connector: 25-pin→9-pin	SP
	AJ71QC24N-R4 600mA	A1SJ71QC24N 350mA	△	For Q2AS series, use A1SJ71QC24N and connect the RS232-422 converter to 1ch.	SP

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⚠For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
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- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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